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PATENT

Attorney Docket No.: INTEL1250-1 (P13830X)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicant: Chan and Su Art Unit: 1632
Application No.: 10/672,149 Examiner: Not Yet Assigned
Filed: September 26, 2003
Title: METHODS AND DEVICE FOR DNA SEQUENCING USING
SURFACE ENHANCED RAMAN SCATTERING (SERS)

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL SHEET

Sir:

Transmitted herewith for the above-identified application please find:

1. Information Disclosure Statement (2 pages);
2. Form PTO-1449 from parent (S/N 10/108,128, filed March 26, 2002) (3 pages);
3. Form PTO 1449 (2 pages);
4. Fifteen references;
5. Return Receipt Postcard

CERTIFICATION UNDER 37 CFR §1.8

I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on September 20, 2004, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Karen LePari

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In re Application of:

Chan and Su

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Page 2

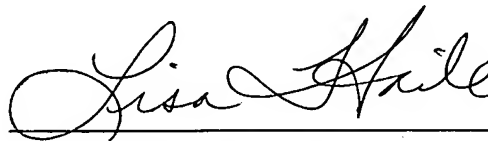
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This Information Disclosure Statement is being filed prior to receipt of a First Office Action on the merits. Therefore, no fee is deemed necessary. However, the Commissioner is hereby authorized to charge any amounts required by this filing, or credit any overpayment, to Deposit Account No. 50-1355.

Respectfully submitted,

Date: September 20, 2004



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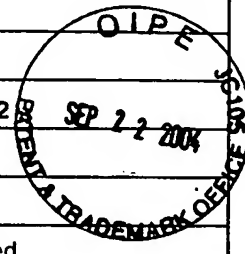
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO (modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if known	
				Application Number	10/108,128
				Filing Date	March 26, 2002
				First Named Inventor	Selena Chan
				Group Art Unit	1712
				Examiner Name	Not yet assigned
Sheet	1	of	2	Attorney Docket Number	042390.P13830

**U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear
		4,962,037		Jett, et al.	10/09/1990	
		5,306,403		Vo-Dinh	04/26/1994	
		5,405,747		Jett, et al.	04/11/1995	
		5,721,102		Vo-Dinh	02/24/1998	
		5,776,674		Ulmer	07/07/1998	
		5,783,389		Vo-Dinh	07/21/1998	
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		5,866,336		Nazarenko, et al.	02/02/1999	
		5,867,266		Craighead	02/02/1999	
		6,002,471		Quake	12/14/1999	
		6,040,191		Grow	03/21/2000	
		6,054,495		Markowitz	04/25/2000	
		6,127,120		Graham, et al.	10/03/2000	
		6,136,543		Anazawa, et al.	10/24/2000	
		6,140,053		Köster	10/31/2000	
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Examiner Initials*	Cite No. ¹	Office ³	Foreign Patent Number ⁴	Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ⁶

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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		6,210,896		Chan	04/03/2001	
		6,214,246		Craighead	04/10/2001	
		6,219,137		Vo-Dinh	04/17/2001	
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		6,376,177		Poponin	04/23/2002	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		MACHARA, N. et al., Efficient Detection of Single Molecules Eluting Off an Optically Trapped Microsphere, <i>Bioimaging</i> 6 (1998), 33-42, 1998.	
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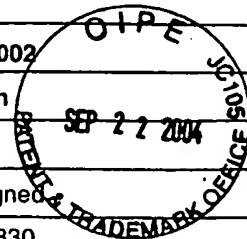
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Substitute for form 1449A/PTO (modified) SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (use as many sheets as necessary)				Complete if known	
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				Filing Date	March 26, 2002
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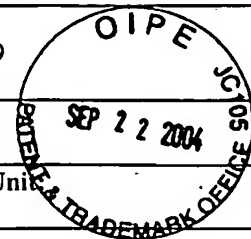
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Bloch <i>et al.</i> , "Optics with an atom laser beam," <i>Phys. Rev. Lett.</i> 87, 2001.	
		Ivanisevic <i>et al.</i> , "Dip-Pen' Nanolithography on Semiconductor Surfaces," <i>J. Am. Chem. Soc.</i> , 123: 7887-7889, 2001.	
		Siegel, "Ion Beam Lithography," VLSI Electronics, Microstructure Science, Vol. 16, Einspruch and Watts eds., Academic Press, New York, 1987.	
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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No.: INTEL1250-1 (P13830X)	Serial No.: 10/672,149
	Applicants: Chan and Su	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: September 26, 2003	Group Art Unit: 1632



U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	AA	Anderson, J.R. et al., "Fabrication of Topologically Complex Three-Dimensional Microfluidic Systems in PDMS by Rapid Prototyping", <i>Anal. Chem.</i> Vol. 72, No. 14, pp. 3158-3164, 2000.
	AB	Bennink, M.L. et al., "Single-Molecule Manipulation of Double-Stranded DNA Using Optical Tweezers: Interaction studies of DNA with RecA and YOYO-1", <i>Cytometry</i> , Vol. 36, pp. 200-208, 1999.
	AC	Craighead, H.G., "Nanoelectromechanical Systems", <i>Science</i> , Vol. 290, pp. 1532-1535, 2000.
	AD	Dörre, K. et al, "Techniques for single molecule sequencing", <i>Bioimaging</i> , Vol. 5, pp. 139-152, 1997.
	AE	Effenhauser, C.S. et al., "High-Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device", <i>Anal. Chem.</i> , Vol. 66, No. 18, pp. 2949-2953, 1994.

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	AF	Goodman, M.F. and Tippin, B., "The Expanding Polymerase Universe", <i>Molecular Cell Biology</i> , Vol. 1, No. 2, pp. 101-109, 2000.
	AG	Harrison, D.J. et al., "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip", <i>Science</i> , Vol. 261, pp. 895-897, 1993.
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	AI	Mehta, A.D. et al., "Single-Molecule Biomechanics with Optical Methods", <i>Science</i> , Vol. 283, pp. 1689-1695, 1999.
	AJ	Newton, C.R. et al., "The production of PCR products with 5' single-stranded tails using primers that incorporate novel phosphoramidite intermediates", <i>Nucleic Acids Research</i> , Vol. 21, No. 5, pp. 1155-1162, 1993.
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	AL	Running, J.A. and Urdea, M.S., "A Procedure for Productive Coupling of Synthetic Oligonucleotides to Polystyrene Microtiter Wells for Hybridization Capture", <i>BioTechniques</i> , Vol. 8, No. 3, pp. 276-277, 1990.
	AM	Smith, S.P. et al., "Inexpensive optical tweezers for undergraduate laboratories", <i>Am. J. Phys.</i> , Vol. 67, pp. 26-35, 1999.
	AN	Walker, L.M. et al., "Mechanical manipulation of bone and cartilage cells with 'optical tweezers'", <i>FEBS Lett.</i> , Vol 459, pp. 39-42, 2000.
	AO	Woolley, A.T. and Mathies, R.A., "Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips", <i>Proc. Natl. Acad. Sci.</i> , Vol. 19, pp. 11348-11352, 1994.

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